2013 Legislature TPS Report 57900v2

**Agency: Commerce, Community and Economic Development** 

**Grants to Municipalities (AS 37.05.315)** 

**Grant Recipient: Unalaska** Federal Tax ID: 92-0036399

Project Title: Project Type: Equipment and Materials

# **Unalaska - Heavy Equipment**

State Funding Requested: \$1,000,000 House District: 37 / S

Future Funding May Be Requested

### **Brief Project Description:**

Purchase and installation of a new caterpillar C-280-16.

## **Funding Plan:**

Contact Name: Liz Clement Contact Number: 907.465.4942

ſ	Total Project Cost:	\$7,500,000	
ı	Funding Already Secured:	(\$0)	
ľ	FY2014 State Funding Request:	(\$1,000,000)	
ı	Project Deficit:	\$6,500,000	

### **Detailed Project Description and Justification:**

In December 2011, the City of Unalaska completed the Unalaska Powerhouse Expansion Project. This Project consisted of constructing a two bay, 16,000 sq. ft. Powerhouse and the installation of two 12V32 Wartsila Gen/Sets in Bay 1, and one Caterpillar C-280-16 Gen/Set in Bay 2, which has two additional C-280-16 foundation pads. Now that the main construction of the Unalaska Powerhouse is complete, the City needs to ensure that future electrical loads are met and the Powerhouse can maintain reserve capacity.

The new Unalaska Powerhouse has a total electrical production capacity 17,232 kW. Production capacity consists of two 12V32 Wartsila Generator Sets, which produce 5,211 kW each, and one Caterpillar C-280-16, which produces 4,400 kW. The new Unalaska Powerhouse also receives 2,410 kW from two Caterpillar 3516 Generator Sets at the Old Unalaska Powerhouse. Unalaska has requests from businesses for 4,500 kW of additional electrical power. The Unalaska Powerhouse generating capacity is able to meet this additional demand but will not have any reserve power should one of the bigger Generator Sets unexpectedly shut down.

At this time, the Unalaska Powerhouse has a peak load of 8,500 kW. When the request for the additional 4,500 kW is met, the peak load will increase to 13,000 kW. If one of the main generator sets unexpectedly shuts down, 5,211 kW is removed from the production capacity. The remaining 12,021 kW production capacity falls short of meeting our 13,000 kW peak load. Since the peak load will not be met, industrial users will be removed from the electrical grid until electrical production can meet the electrical load.

Prudent utility practice requires that a utility maintain sufficient generating capacity such that loads can be met in the event of an unscheduled outage or if peak requirements are greater than anticipated. Not doing so would put a great burden on the residents of Unalaska. This project will also insure a reliable and fair priced electrical source for the residents and businesses of Unalaska.

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or use by Co-chair Staff Only:

\$1,000,000

Approved
2:

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Total cost for this project is \$7,500,000. Funds granted will be used to purchase and install a new Caterpillar C-280-16 Generator Set; remaining project costs of the project will be paid for by the City of Unalaska.

Unalaska is the number one commercial fishing port in the nation. Our contribution to Alaska's tax base exceeds \$27 million per year, which is twice the State of Alaska per capita average. Investment in Unalaska infrastructure also strengthens this tax producing infrastructure.

#### **Project Timeline:**

Engineering completed December 2013

Equipment Purchase - May 2014

Construction completed - December 2015

#### **Entity Responsible for the Ongoing Operation and Maintenance of this Project:**

City of Unalaska

#### **Grant Recipient Contact Information:**

Name: Chris Hladick

Title: Unalaska City Manager

Address: P.O. Box 610

Unalaska, Alaska 99685

Phone Number: (907)581-7733

Email: chladick@ci.unalaska.ak.us

Has this project been through a public review process at the local level and is it a community priority? X Yes No

Contact Name: Liz Clement Contact Number: 907.465.4942 For use by Co-chair Staff Only: 2:02 PM 5/9/2013



This picture is of our existing C-280-16 during 2011 installation. The \$5,000,000 requested will be used for the purchase and installation of a new C-280-16 Generator Set. Total cost for purchase and installation of a new C-280-16 is \$7,500,000. Remaining costs will be paid for by the City of Unalaska.